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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/883,586	06/18/2001	Brij P. Giri	MDH-109-A	1602	
75	90 05/09/2003				
Arnold S. Weintraub			EXAMINER		
Plunkett & Cooney, P.C.			GITOMER, RALPH J		
Suite 3000					
38505 North Woodward					
Bloomfield Hills, MI 48304			ART UNIT	PAPER NUMBER	
		•	1651	1 1	
•			DATE MAILED: 05/09/2003	\sim (

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/883,586

Applicant(s)

Giri

Examiner

Ralph Gitomer

Art Unit 1651



	The MAILING DATE of this communication appears	on the cover	sheet with	the correspondence address		
Period f	for Reply					
	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE	3	_ MONTH(S) FROM		
	· Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the					
mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status				1		
1) 💢	Responsive to communication(s) filed on Mar 4, 20)03				
2a) □	This action is FINAL . 2b) 💢 This act	ion is non-fin	ıal.			
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex. parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposition of Claims						
4) 💢	Claim(s) <u>1-21</u>			is/are pending in the application.		
4	a) Of the above, claim(s) 13-20			is/are withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
6) 💢	Claim(s) <u>1-12 and 21</u>			is/are rejected.		
7) 🗆	Claim(s)			is/are objected to.		
8) 🗆	Claims	a	are subject	to restriction and/or election requirement.		
Application Papers						
9) 🗆	The specification is objected to by the Examiner.					
10)□						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	The proposed drawing correction filed on	=				
	If approved, corrected drawings are required in reply to this Office action.					
12)	2) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) 🗌						
a)	a) 🗆 All b) 🗀 Some* c) 🗆 None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have	e been recei	ved in App	olication No		
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
*Se	*See the attached detailed Office action for a list of the certified copies not received.					
14) 💢 Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
	tice of References Cited (PTO-892)	_		O-413) Paper No(s)		
_	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)				
3) [Inf	ormation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) U Other:				

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Applicant's election with traverse of Group I, claims 1-12, 21 in Paper No. 3 is acknowledged. The traversal is on the ground(s) that a search would encompass all the groups. This is not found persuasive because the inventions are independent and distinct for reasons given in addition to search issues.

The requirement is still deemed proper and is therefore made FINAL.

The_elected species is the definitions of claim 3(1)-(a) and claim 4. There are a number of issues in the claims under 35 USC 112 which will be considered after the rejections over references are fully considered because no claims directed to the elected subject matter are presented. For example, several claims lack a period and the term systems is not understood and is nonstandard. Priority is granted to 6/17/2000.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over each of Schaap, Bronstein, Akhavan-Tafti, and Adolfsen.

Schaap (Tetrahedron Letters Office of Naval Res) entitled *Chemical and Enzymatic Triggering of 1,2-Dioxetanes* teaches on page 1 in the Figure, Structure 2, which meets the limitations of present claim 3(1)(b) but not 3(1)(a) or claim 4.

Bronstein (WO 97/24460) entitled Multiple Reporter Gene
Assay teaches on page 11, structure I, which meets the
limitations of present claim 3(1)(b) but not 3(1)(a) or claim 4.

Bronstein (5,547,836) entitled &Enhancement of Chemiluminescent Assays teaches in column 4, a structure which meets the limitations of present claim 3(1)(b) but not 3(1)(a) or claim 4.

Bronstein (5,637,747) entitled Syntheses of 1,2-Dioxetanes and Intermediates Therefor teaches in column 3, a dioxetane where T can be a cycloalkylidene group which would read on present claim 3(1)(a) and 3(1)(b) but not claim 4.

Akhavan-Tafti (5,777,135) entitled Di-Substituted 1,2Dioxetane Compounds Having Increased Water Solubility and Assay
Compositions teaches in column 7 line 40, a compound which meets
the limitations of present claim 3(1)(b) but not 3(1)(a) or claim
4.

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Adolfsen (5,631,167) entitled *Capsule Chemistry Analytical Methods Employing Dioxetane Chemiluminescence teaches in column 6, compounds which meet the limitations of present claim 3(1)(b) and 3(1)(a) but not claim 4 where R6 may have double bonds.

The claims differ from the above references in that limitations directed to the enhancer are not specified in all the above cited references as claimed.

It would have been obvious to one of ordinary skill in the art at the time—the invention was made to include an enhancer with the dioxetane because such enhancers are well known in this art and to select specific enhancers for their known function would have been obvious in view of the references which teach enhancers in general. No unexpected results are seen in the presently claimed selection of enhancers.

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Claims 1-12, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giri.

Giri (6,461,876) entitled *Chemiluminescent Compounds*
teaches in claim 4, the same compound as presently claimed in claim 4.

All the features of the claimed compounds are taught by Giri for the same function as claimed. The 102(e) date of Giri is 9/1998.

 The claims differ from Giri in that they include an enhancer, although the claims are not directed towards a composition.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include an enhancer with the dioxetane because such enhancers are well known in this art and to select specific enhancers for their known function would have been obvious. No unexpected results are seen in the presently claimed selection of enhancers.

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The title of the invention is not aptly descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

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The following prior art pertinent to applicant's disclosure is made of record and not relied upon:

Bronstein (5,756,770) teaches dioxetane analogues.

Bronstein (4,956,477) teaches dioxetanes.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ralph Gitomer whose telephone number is (703) 308-0732. The examiner can normally be reached on Tuesday-Friday from 8:00 am - 5:00 pm. The examiner can also be reached on alternate Mondays. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Michael Wityshyn can be reached on (703) 308-4743. The fax phone number for this Art Unit is (703) 308-4556. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1235. For 24 hour access to patent application information 7 days per week, or for filing applications electronically, please visit our website at www.uspto.gov and click on the button Patent Electronic Business Center for more information.

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Rectoures

Ralph Gitomer Primary Examiner Group 1651

> RALPH GITOMER PRIMARY EXAMINER GROUP 1200

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